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The Dominion of Canada.[1]

List of the Geological Formations of Canada:

16. Triassic.		
14. Coal Measures.	Carb.	
13 b. Mississippi, Carb. l. s.	Carb.	
13 a. Bonaventure, or Waverley.	Carb.	
12. Catskill, (Old Red Sandstone.)	Devonian.	
11 b. Chemung and Portage.	Devonian.	
10 b. Hamilton, inc. Mar. & Gen.	Devonian.	
9 c. Corniferous, or Up. Held.	Devonian.	
8. Oriskany.	Devonian.	
7. Lower Helderberg.	Silurian.	
6. Salina, or Onondaga.	Silurian.	
5 d. Guelph.	Silurian.	
5 c. Niagara.	Silurian.	
5 b. Clinton.	Silurian.	
5 a. Medina and Oneida.	Silurian.	
4 c. Loraine.	4. Upper Cambrian or Siluro-Cambrian.	
4 b. Utica.	4. Upper Cambrian or Siluro-Cambrian.	
4 a. Trenton.	4. Upper Cambrian or Siluro-Cambrian.	
3 c. Chazy.	3. Middle Cambrian.	
3 b. Levis.	3. Middle Cambrian.	
3 a. Calciferous.	3. Middle Cambrian.	
2 d. Potsdam.	2. Lower Cambrian.	
2 c. Sillery.	2. Lower Cambrian.	
2 b. Acadian.	2. Lower Cambrian.	
2 a. Lower Taconic.	2. Lower Cambrian.	
1 d. Montalban.	1. Eozoic or Crystalline.	
1 c. Norian or Labrador.[2]	1. Eozoic or Crystalline.	
1 b. Huronian.	1. Eozoic or Crystalline.	
1 a. Laurentian.	1. Eozoic or Crystalline.	

Ms.	1 The Grand Trunk Railway.	
0	PORTLAND, Me.	1 d. Montalban.
11	Yarmouth.	"
27	Danville Junc.	"
36	Mechanics' Fls.	"
47	South Paris.	"
70	Bethel.	"
91	Gorham, N. H.	"
123	Groveton Jun.	1 b. Huronian.
134	N. Stratford.	"
149	Island Pond.	1 d. Montalban.
166	Norton Mills.	"
175	Coaticook.	2. Lower Cambrian.
186	Westerville.	"
193	Lennoxville.	2. Lower Cambrian.
196	Sherbrooke.	1 b. Huronian.
217	- - - -	
221	RICHMOND.	"
228	Lisgar.	"
235	Durham.	2. Lower Cambrian.
243	Acton.	"
255	Britannia Mills	"
262	St. Hyacinthe.	4 c. Loraine.
275	St. Hilaire.	"
282	St. Bruno.	"
292	St. Lambert.	4 b. Utica, 5 m.
297	MONTREAL.	4 a. Trenton.

Riviere du Loup Branch.		
0	Point Levis.	3. Middle Cambrian.
8	Chaudière.	2. Lower Cambrian.
11	St. J. Chrisost.	"
28	St. Michael.	"
46	St. Thomas.	"
60	L'Islet.	"
76	St. Roch.	"

Ms.	Riviere du Loup Branch—*Con.*	
95	St. Denis.	2. Lower Cambrian.
105	Ste. Helène.	"
125	Riv. du Loup.	"
130	St. Arsène.	"
138	Isle Verte.	"
144	Trois Pistoles.	"

Quebec Branch.		
0	Point Levis, opposite Queb.	3. Middle Cambrian.
55	Stanfold.	1 b. Huronian.
64	Arthabaska.	"
96	RICHMOND.	"

Arthabaska Branch.		
0	ARTHABASKA.	1 b. Huronian.
48	Aston.	"
25	St. Celestin.	4 c. Loraine, 4 miles.
31	St. Gregoire.	5 a. Medina, 6 miles.
35	THREE RIVERS.	4 c. Loraine, 3 miles.

Montreal to Toronto and Detroit.		
0	Montreal.	4 a. Trenton, 14 miles.
8	Lachine Jun.	"
14	Point Claire.	"
21	Ste. Anne.	3 a. Calciferous, 7 miles
24	Vaudreuil.	2 b. Potsdam, 10 miles.
31	St. Dominique.	"
37	Coteau Land'g.	3 a. Calciferous, 3 miles
48	Bainsville.	3 c. Chazy, 33 miles.
54	Lancaster.	"
59	Summertown.	"
67	Cornwall.	3 a. Calciferous, 5 miles
72	Mille Roches.	4 a. Trenton, 2 miles.
77	Dickinson.	3 c. Chazy, 30 miles.
81	Farran's Point.	"
92	Morrisburg.	"

1. Corrected and the nomenclature arranged by Prof. T. Sterry Hunt, LL. D., F. R. S.
2. The Norian or Labrador series (Upper Laurentian of Logan) is found, like the Huronian, to rest unconformably upon the Laurentian, but its true relation to the Huronian being yet undetermined, the position at present assigned to it in the Eozoic succession is only provisional.—T. S. H.

Grand Trunk Railway.

Ms.	(Montreal to Toronto and Detroit—*Con.*)'	
99	Iroquois.	3 c. Chazy.
104	Edwardsburg.	3 a. Calciferous.
112	Prescott Jun.	"
112	Prescott Jun.	3 a. Calciferous- 45 m.
164	Ottawa.	3 c. Chazy. 7 miles.
115	Gladstone.	3 a. Calciferous.
120	Maitland.	"
125	Brockville.	"
129	Lyn.	2 b. Potsdam.
138	Mallorytown.	"
147	Landsdowne.	1 a. Laurentian, 34 m.
155	Gananoque.	"
162	Ballantyne's.	"
169	Rideau.	"
172	Kingston.	"
180	Collins' Bay.	4 a. Trenton, 114 miles.
194	Fredericksb'rg	"
198	Napanee.	"
213	Shannonville.	"
223	Belleville.	"
232	Trenton.	"
241	Brighton.	"
249	Colborne.	"
256	Grafton.	"
264	Cobourg.	"
270	Port Hope.	"
279	Newtonville.	"
286	Pt. Newcastle.	"
290	Bowmanville.	4 b. Utica, 24 miles.
294	Saxony.	"
299	Oshawa.	"
303	Whitby.	"
310	Dunn's Creek.	"
316	Port Union.	4 c. Loraine, 44 miles.
324	Scarboro Jun.	"
333	Toronto.	"
341	Weston.	"
354	Brampton.	5 a. Medina, 11 miles.
362	Georgetown.	"
5	Limehouse.	5 d. Guelph, 26 miles.
368	Acton West.	"
374	Rockwood.	"
381	Guelph.	"
386	Balmoral.	"
391	Breslau.	"
396	Berlin.	6. Onondaga, 14 miles.
403	Doon.	5 a. Guelph.
408	Galt.	"
402	Petersburg.	6. Onondaga.
405	Baden.	7 & 8. Cornif. 16 m. and
421	Stratford.	" [Oriskany
421	Stratford.	" 33 m.
432	St. Mary's.	"
444	Thorndale.	"
454	London.	"
421	Stratford.	" 26 m.
432	St. Mary's.	"
447	Lucan.	"

Grand Trunk Railway.

Ms.	Montreal to Toronto and Detroit—*Con.*	
454	Ailsa Craig.	10 b. Hamilton, 23 m.
461	Park Hill.	"
470	Widder.	"
479	Forrest.	11 b. Chemung, 91 m.
496	Blackwell.	"
501	Sarnia.	"
502	P. Huron, Mich	"
512	Ch. & L. H. Jun	"
557	Milw. Junc.	"
561	Detroit Junc.	"
564	Detroit.	10 b. Hamilton, 3 miles.

Buffalo to Goderich and Detroit.

0	Buffalo.	10. Hamilton, 2 miles.
2	Fort Erie.	9. Corniferous, 30 m.
19	Port Colborne.	"
32	Feeder.	6. Salina, 60 miles.
38	Dunnville.	"
59	Caledonia.	"
68	Onondaga.	"
76	Brantford.	"
84	Paris.	"
82	Drumbo.	"
97	Bright.	9. Corniferous, 68 m.
115	Stratford.	"
128	Mitchell.	"
139	Seaforth.	"
148	Clinton.	"
160	Goderich.	"

Montreal to St. John's and Rouse's Point.

0	Montreal.	4 a. Trenton, 2 miles.
2	St. Lambert.	4 b. Utica, 19 miles.
17	Laprairie Jun.	"
21	Lacadie.	"
27	St. John's.	4 a. Trenton, 29 miles.
40	Stottsville.	"
45	Lacolle.	"
50	Rouse's Point.	"

Montreal to Lachine and Province Line.

0	Montreal.	4 a. Trenton, 10 miles.
8	Lachine.	"
10	Caughnawaga.	4 a. Trenton.
15	St. Isidore.	3 c. Chazy, 18 miles.
21	St. Remi.	"
28	Hughes.	3 a. Calciferous, 12 m.
36	Hemmingford.	"
40	Province Line	"

2 Canada Southern Railway.

0	Buffalo.	9. Corniferous, 2 miles.
6	Victoria.	6. Onondaga. 58 miles.
8	Niagara Junc.	"
23	Welland.	"
32	Perry.	"
47	Canfield.	"
54	Dean's.	"
64	Hagersville.	9. Corniferous, 64 miles.
72	Villa Nova.	"

Ms.	Canada Southern Railway—*Con.*	
83	Windham.	9. Corniferous.
99	Tilsonburg.	"
111	Springfield.	"
124	St. Thomas.	10. Hamilton, 74 miles.
128	St. Claire Jn.	"
137	Iona.	"
150	Bismark.	"
162	Highgate.	"
187	Buxton.	"
198	Tilbury.	"
204	Comber.	9. Corniferous, 48 miles.
213	Woodslee.	"
227	Colchester.	"
235	Amherstburg.	"
236	Grosse Isle.	"
239	Trenton.	"
256	Detroit.	10. Hamilton, 10 miles.
0	Buffalo.	9. Corniferous.
8	Niagara Junc.	6. Onondaga.
19	Black Creek.	5 d. Guelph.
25	Chippewa.	5 c. Niagara.
28	Clifton House.	"
29	Susp. Bridge.	"
35	Queenston.	5 a. Medina
42	Niagara.	"

3 Great Western Railway.

	Susp. Bridge.	
0	Clifton.	5 c. Niagara, 9 miles.
9	Thorold.	"
11	St. Catharines.	5 a. Medina, 34 miles.
27	Grimsby.	"
43	Hamilton.	"
43	Hamilton.	5 a. Medina 32 miles.
45	Toronto Junc.	"
56	Bronte.	"
69	Port Credit.	"
75	Mimico.	4 c. Loraine, 7 miles.
82	Toronto.	"
43	Hamilton.	5 b. Clinton.
	Dundas.*	5 c. Niagara. 5 b. Clinton.
55	Copetown.	5 d. Guelph.
59	Lynden.	"
62	Harrisburg.	"
65	St. George.	"
67	Dumfries.	6. Onondaga.
72	Paris.	" Gravel ridge.
79	Princeton.	" "
84	Governor's.	9. Corniferous.
80	Woodstock.	" Heavy gravel ridge.
110	Dorchester.	"
119	London.	"
129	Komoka.	10 b. Hamilton, 26 m.
140	Longwood.	"
145	Appin.	11 b. Chemung, 23 m.
156	Newbury.	"

Ms.	Great Western Railway.—*Con.*	
168	Thamesville.	10 b. Hamilton, 25 m.
183	Chatham.	"
198	Prairie.	9. Corniferous, 36 m.
207	St. Clair.	"
221	Tecumseh.	"
229	Windsor.	"
230	Detroit.	10 b. Hamilton, 1 m.

Great Western Railway Air Line.

00	Buffalo.	9. Corniferous, 75 m.
16	Welland.	"
72	Simcoe.	"
81	Delhi.	10 b. Hamilton, 68 m.
99	Corinth.	"
112	New Sarnia.	"
117	St. Thomas.	"
136	Baird's.	"
130	Lawrence.	"
145	Glencoe.	11 b. Chemung, 2 m.
224	Windsor.	"
225	Detroit.	"

4 Toronto, Grey and Bruce Railway.

0	Toronto.	4 c. Loraine, 33 miles.
9	Western Junc.	"
22	Kleinburg.	"
27	Bolton.	"
33	Mono Road.	5 a. Medina, 5 m.
41	Charleston.	5 c. Niagara, 11 m.
49	Orangeville.	"
64	Shelburne.	5 d. Guelph, 38 m.
81	Proton.	"
87	Flesherton.	5 c. Niagara, 6 m.
93	Markdale.	5 d. Guelph, 16 m.
98	Berkeley.	"
107	Arnot.	"
109	Chatsworth.	5 c. Niagara, 13 m.
114	Rochford.	"
122	Owen Sound.	" M'g. & Clinton

5 Northern Railway of Canada.

0	Toronto.	4 c. Loraine, 24 miles.
14	Thornhill.	"
18	Richmond Hill	"
22	King.	"
30	Aurora.	4 b. Utica, 14 m.
34	Newmarket.	"
38	Holland.	"
49	Gilford.	5 d. Guelph, 34 m.
52	Lefroy.	"
57	Bramley.	"
63	Allendale.	"
74	Angus.	4 b. Utica.
86	Stayner.	"
94	Collingwood.	"
105	Meaford.	4 c. Loraine, 16 miles.

*At Dundas, close to Station, on N. side, a fine section of Niagara and Clinton.

LIBRARY
GEOLOGICAL SURVEY
OF CANADA

Ms.	6 Intercolonial Railway.	
	Eastern Division.	
0	Halifax.	2. Lower Cambrian.
8	Bedford.	" "
13	Windsor Junc.	" "
28	Enfield.	" "
30	Elmsdale.	" "
35	Milford.	13 a. Bonaventure.
39	Shubenacadie.	"
44	Stewiacke.	"
53	Brookfield.	"
61	Truro.	16. Triassic.
	Central Division.	
61	Truro.	16. Triassic. 13 a. Bonaventure. 14. Coal Measures. 13 a. Bonaventure.
78	Londonderry.	5-7. Upper Silurian. Granite.
90	Wentworth.	14. Coal Measures.
130	Maccan.	13 a. Bonaventure.
138	Amherst.	"
144	Aulac.	14. Coal Measures.
147	Sackville.	"
159	Dorchester.	"
167	Memramcook.	13 a. Bonaventure.
179	Painsec Junc.	14. Coal Measures.
	Western Division.	
179	Painsec Junc.	14. Coal Measures.
185	Humphrey's.	" "
189	Moncton.	" "
197	Boundary Crk.	13 a. Bonaventure.
200	Salaberry.	"
210	Peticodiac.	"
216	Anagance.	"
225	Penobsquis.	"
232	Sussex.	"
237	Apohaqui.	"
243	Norton.	"
250	Passekeag.	"
254	Hampton.	"
259	Nauwigewauk.	"
267	Rothesay.	1 a. Laurentian.
279	St. John.	" (2 b. Acadian.)
	Northern Division.	
187	Moncton.	14. Coal Measures.
224	Welford.	"
310	Bathurst.	2 Lower Cambrian. 13 a. Bonaventure.
329	Belledune.	2. Lower Cambrian.
347	New Mills.	" "
364	Dalhousie.	5-7. Silurian.
372	Campbellton. †	
395	Mill Stream.	9-11. Devonian.
433	Amque.	"
448	Sayabec.	2. Lower Cambrian.

Ms.	Intercolonial Railway.—*Con.* Continuation of Northern Division.	
477	Ste. Flavie.	2. Lower Cambrian.
515	St. Fabien.	"
534	Trois Pistoles.	"
552	Isle Verte.	"
561	Rivière du Loup.	"
	Pictou Branch.	
61	Truro.	16. Triassic.
70	Union.	13 a. Bonaventure.
74	Riverdale.	"
82	West River.	5-7. Silurian.
89	Glengarry.	13 a. Bonaventure.
96	Hopewell.	14. Coal Measures.
104	New Glasgow.	"
112	Pictou Land'g.	"
113	Pictou.	"
	Shediac Branch.	
179	Painsec Junc.	14. Coal Measures.
184	Dorchester Rd.	"
188	Shediac.	"
190	Pt. du Chene.	"
	7 Windsor and Annapolis Railway.	
0	Halifax.	2. Lower Cambrian.
13	Windsor Junc.	"
30	- - - - -	(Outcrop of Granite.)
39	Newport.	13 a. Bonaventure.
45	Windsor.	"
47	Falmouth.	"
52	Hantsport.	
63	Wolfville.	16. Triassic.
65	Port William.	"
70	Kentville.	"
82	Berwick.	"
87	Aylesford.	"
98	Wilmot.	"
101	Middleton.	"
107	Lawrenceton.	"
115	Bridgetown.	"
121	Round Hill.	"
129	Annapolis.	9-11. Devonian.
	8 European and N. American R. R.	
0	St. John's.	1 a. Laurentian.
4	Fairville.	1 b. Huronian.
16	Westfield.	" Granite.
26	Welsford.	"
36	Fanniskillen.	14. Coal Measures.
46	Frederickton J.	"
67	Harvey.	"
86	McAdam Jun.	1 d. Montal'n. (Granite.)
91	St. Croix Jun.	
118	Danforth.	1 b. Huronian.
160	Lincoln.	"
183	Oldtown.	"
206	Bangor.	"

Devonian.

† Whence some of the rarest fossil fishes as Coccosteus & Cephalaspis have been first obtained recently.

Maine. New Hampshire, Vermont, Massachusetts, Rhode Island and Connecticut.[1]

Table of the Geological Formations of the New England States.

Cenozoic.

20. Quaternary.	20 b. Champlain Clays.
"	20 a. Glacial Drift.
19. Tertiary.	19 c. Pliocene.
"	19 b. Miocene.
"	19 a. Eocene.

Mesozoic.

16. Triassic.	16. Triassic.

Paleozoic.

14. Carbonifer's.	14 b. Coal Measures.
"	14 a. Conglomerate.
8–10. Devonian.	10. s. s. pro'bly Hamilton.
"	9. Upper Helderb'g l.s.
"	8. Oriskany Group.
5–7. Silurian.	7. Lower Helderberg.
"	5. Port Daniel (Niag'a)
3–4. Cambro-Silurian.	4 d. Magnesian Slate(Emmons), possibly Cambrian.
"	4 c. Loraine Shales.
"	4 b. Utica Slate.
"	4 a. Trenton l. s.
"	3 c. Chazy l. s. } Stock-
"	3 b. Levis l. s. } bridge.
"	3 a. Calciferous s. s.
"	2 j. Potsdam ss. sl. & qu.
2. Cambrian.[2]	2 i. Clay sl. (Georgian Group.)
"	2 h. St. Johns or Braintree Slate.
"	2 g. Taconic Slate.
"	2 f. Roxbury Conglom'e.
"	2 e. Calciferous Mica Schists.
"	2 d. Staurolite Slate and Schists.
"	2 c. Quartzite.
"	2 b. Andalusite Schists.
"	2 a. Rockingham Mica Schists.

Eozoic.[2]

1 D. Huronian.	1 p. Merrimack qu. & sch.
"	1 o. Hydro Mica (Talcose) Schists and Grits.
"	1 n. Quartzite, Indurated Slate, &c.
"	1 m. Felsite Porphyries.
"	1 l. Hornblende Schists.
"	1 k. Lisbon, Lyman & Swiftwater Series of N. H.
1 C. Labrador.	1 j. Franconia Breccia.
1 B. Montalban.	1 i. Andalusite Gneiss.
"	1 h. Concord & Hallowell Granites.
"	1 g. Lake Winnipiseogee Gneiss.
"	1 f. Green Mount. Gneiss.
1 A. Laurentian.	1 e. Bethlehem "
"	1 d. Porphyritic "
"	1 c. Adirondac "
"	1 b. K 2, K 3 of Percival.
"	1 a. E. Mass. Gneiss, &c.

Eruptive Rocks.[2]

K	h. Mesozoic Dolerites.
J	j. Labradorite Diorites.
I	i. Dolerites.
H	h. Diorites.
G	g. Porphyry of White Mountains.
F	f. Granite, cutting Cambrian Slates.
E	e. Chocorua Sienite and Granite.
D	d. Exeter (Quincy) Sienite.
C	c. Albany Granite.
B	b. Conway Granite.
A	a. Trachyte, &c., of White Mountains.

1. Prepared by Prof. C. H. Hitchcock, State Geologist of New Hampshire.

2. The Eruptive Rocks and the subdivisions of 1 and 2 are not necessarily consecutive. 2 c., 2 d. and 2 e. may yet prove to be Silurian.

Maine.

Ms.	Maine Central Railroad.	
0	Portland.	1 c. Huronian.
8	Falmouth.	1 B. Montalban.
15	Yarmouth.	"
20	Freeport.	"
25	Oak Hill.	"
29	Brunswick.	"
37	Bowdoinham.	"
44	Richmond.	"
56	Gardner.	"
60	Hallowell.	" Granite.
62	Augusta.	" "
70	Riverside.	2. Cambrian.
81	Waterville.	"
89	Clinton.	1 c. Huronian.
94	Burnham.	"
101	Pittsfield.	"
108	Newport.	"
117	Etna.	"
125	Herman Pond.	"
135	Bangor.	"

	Skowhegan Division.	
0	Waterville.	2. Cambrian.
11	Pishon Ferry.	1 c. Huronian.
19	Skowhegan.	"

	Lewiston Division.	
0	Portland.	1 c. Huronian.
8	Falmouth.	1 B. Montalban.
19	Gray.	"
29	Danville Junc'n	"
36	Lewiston.	"
46	Leeds Junction.	"
55	Winthrop.	"
61	Readfield.	"
74	North Belgrade.	"
84	Waterville.	2. Cambrian.

	Belfast Division.	
0	Burnham.	1 c. Huronian.
8	Unity.	"
12	Thorndike.	"
22	Brooks,	1 B. Montalban.
32	City Point.	2. Cambrian.
34	Belfast.	"

	Dexter Division.	
0	Newport.	1 c. Huronian.
7	Corrinne.	"
14	Dexter.	"

Ms.	Maine Central Railroad—*Continued.* Androscoggin Division.	
0	Bath.	1 B. Montalban.
9	Brunswick.	"
20	Lisbon.	"
27	Lewiston.	"
34	Leeds Junction.	"
44	North Leeds.	"
54	Livermore Falls	1 c. Huronian.
67	Wilton.	1 g. Lake Gneiss.
74	Farmingham.	2 c. and d. Coos.

	Knox and Lincoln Railroad.	
0	Bath.	1 B. Montalban.
11	Wicasset.	1 g. Lake Gneiss.
18	New Castle.	"
30	Waterloo.	"
37	Warren.	"
45	Thomaston.	3 b. Levis Limestone.
49	Rockland.	" and Quartzite.

	Bangor and Piscataquis Railroad.	
0	Bangor.	1 c. Huronian.
12	Old Town.	"
21	Alton.	"
31	Lagrange.	"
40	Milo.	"
53	Dover.	"
61	Guilford.	2. Cambrian.

	European and North American Railway.	
0	Bangor.	1 c. Huronian.
5	Veazie.	"
12	Old Town.	"
18	Costigan.	"
27	Olamon.	"
36	Enfield.	"
45	Lincoln.	"
56	Winn.	"
66	Kingman.	"
79	Bancroft.	"
88	Danforth.	"
102	Eaton.	"
115	St. Croix.	7–10. Devonian.

☞ Railroads of Maine not found under the Maine heading are to be found in the chapters on Massachusetts and New Hampshire.

New Hampshire.[3]

Ms.	Grand Trunk Railway.	
0	Portland, Me.	1 c. Huronian.
5	Falmouth.	"
11	Yarmouth.	1 B. Montalban.
18	Pownal.	"
27	Danville Junc'n	"
36	Mechanic Falls.	"
41	Oxford.	"
47	South Paris.	"
55	West Paris.	"
65	Locke's Mills.	"
70	Bethel.	"
80	Gilead.	"
86	Shelburne.	"
91	Gorham.	"
98	Berlin Falls	1 g. Lake Group.
103	Milan.	"
122	Groveton.	1 c. Huronian.
134	North Stratford	"
142	Wenlock.	Granite.
149	Island Pond.	"
166	Norton Mills.	"
175	Coaticooke.	2 c. Calcife's Mica Schist
	(Continued in Canada.)	

	Portland and Ogdensburg Railroad.	
0	Portland, Me.	1 c. Huronian.
5	Westbrook.	1 B. Montalban.
11	South Windham	"
17	Sebago Lake.	"
24	Steep Falls.	"
32	Baldwin.	"
43	Brownfield.	"
49	Fryeburg.	"
60	North Conway.	B b. Conway Granite.
66	Glen Station.	C c. Albany Granite.
72	Upper Bartlett.	B b. Conway Granite.
78	Bemis.	1 B. Montalban.
87	Crawford.	"
91	Fabyan's.	"
95	Twin Mountain.	1 c. Bethlehem Gneiss.
101	Bethlehem.	"
105	Wing Road.	1 d. Porphyritic Gneiss.
114	Lunenburg.	1 k. Lyman Group.

	Northern New Hampshire Railroad.	
0	Concord.	1 h. Concord Granite.
7	Fisherville.	1 B. Montalban.
14	Nor. Boscowen.	"
17	Franklin.	"
25	East Andover.	"
31	Potter Place.	1 d. Porphyritic Gneiss.
44	Grafton.	"
52	Canaan.	1 l. Hornblende Schist.
59	Enfield.	1 e. Bethlehem Gneiss.
65	Lebanon.	"
69	W.R. Junction.	1 l. Hornblende Schist.

Ms.	Boston, Concord & Montreal Railroad.	
0	Concord.	1 h. Concord Granite.
10	Canterbury.	2 a. Rockingham Schist.
18	Tilton.	1 g. Lake Gneiss.
27	Laconia.	1 B. Montalban.
33	Weirs.	1 d. Porphyritic Gneiss.
48	Ashland.	"
51	Plymouth.	1 B. Montalban.
59	Rumney.	"
67	Wentworth.	1 g. Lake Gneiss.
71	Warren.	"
84	Haverhill.	1 c. Huronian.
93	Wells River.	" & 1 k. Lyman.
103	Lisbon.	" & 1 k. Lisbon.
	North Lisbon.	7. Helderberg.
113	Littleton.	2 c. Coos & 7. Helderbg.
120	Wing Road.	1 d. Porphyritic Gneiss.
124	Bethlehem.	1 c. Bethlehem Gneiss.
129	Twin Mountain.	" (Local Glacier.)
134	Fabyan's.	1 B. Montalban.
120	Wing Road.	1 d. Porphyritic Gneiss.
128	Dalton.	1 c. Huronian.
135	Lancaster.	"
145	Groveton Junc.	"

	Concord Railroad of New Hampshire.	
0	Concord.	1 h. Concord Granite.
5	Suncook.	1 B. Montalban.
9	Hooksett.	"
13	Martin's.	1 g. Lake Gneiss.
18	Manchester.	"
26	Reed's.	"
29	Thornton's.	"
35	Nashua.	1 p. Merrimack Group.

	Suncook Valley Branch.	
	Hooksett.	1 B. Montalban.
	Pittsfield.	2 a. Rockingham Schist.

	Concord and Portsmouth Railroad.	
0	Manchester.	1 g. Lake Gneiss.
8	Auburn.	"
18	Raymond.	1 c. Huronian.
24	Epping.	1 p. Merrimack Group.
31	New Market.	D d. Exeter Sienite.
41	Portsmouth.	1 p. Merrimack Group.

	Manchester and Lawrence Railroad.	
0	Manchester.	1 g. Lake Gneiss.
8	Wilson's.	1 p. Merrimack Group.
14	Windham.	"
22	Messer's.	"
26	Lawrence.	"

	Manchester and North Weare Railroad.	
0	Manchester.	1 g. Lake Gneiss.
11	Oil Mills.	"
19	North Weare.	"

Ms.	Cheshire Railroad.	
0	Bellows Falls.	1 B. Montalban.
4	Walpole.	2 c. & d. Coos sch. & qu.
10	Westmoreland.	1 l. Hornblende Schists.
22	Keene.	1 c. Bethlehem Group.
32	Troy.	4 B. Montalban.
37	Fitzwilliam.	1 a Concord Granite.
43	State Line.	1 B. Montalban.
46	Winchester.	"
54	S. Ashburnham.	"
64	Fitchburg.	"

	Ashuelot Railroad.	
0	Keene.	1 c. Bethlehem Group.
8	Westport.	"
15	Ashuelot.	1 d. Porphyritic Gneiss.
24	South Vernon.	2 c. Coos Quartz.

Ms.	Concord and Claremont Railroad.	
0	Concord.	
8	Mast Yard.	Ferruginous Schists.
12	Contoocook.	1 h. Concord Granite.
18	Warner.	1 g. Lake Gneiss.
23	Roby's Corners.	1 d. Porphyritic Gneiss.
27	Bradford.	"
34	Newbury.	"
43	Newport.	4 g. Lake Gneiss.
48	Kellysville.	"
54	Claremont.	2 c. Calcifer's Mica Sch.
12	Contoocook.	1 h. Concord Granite.
20	Henniker.	1 d. Porphyritic Gneiss.
27	Hillsboro.	1 g. Lake Gneiss.

☞ Railroads not found under New Hampshire heading will be found in Massachusetts.

3. The New Hampshire formations are believed to possess thickness as follows: Helderberg, 500 feet; Calciferous Mica Schists, 4,800 feet; Coos Group, 7,300 feet; Cambrian Slates of Connecticut Valley, 3,000 feet; Kearsarge Group, 1,300 feet; Rockingham Mica Schists, 6,000 feet; Merrimack Group, 4,300 feet; Huronian, 12,000 feet; Montalban, 10,000 feet; Lake Winnepisseoga Gneiss, 18,000 feet; Bethlehem Gneiss, 11,300 feet; Porphyritic Gneiss, 5,000 feet.

Vermont.

Ms.	Central Vermont Railroad. Southern Division.	
127	Brattleboro.	2. Cambrian.
130	Putney.	2 d. Coos Schist.
141	Westminster.	2. Cambrian.
145	Bellows Falls.	1 B. Montalban.
153	Charleston.	2 c. & d. Coos Group.
163	Claremont.	2 c. Calcife's Mica Sch.
171	Windsor.[4]	"
179	North Hartland.	2. Camb. & 1 c. Huro'n.
185	White River Jn.	1 l. Hornbl. Schist. "

	Central Division.	
171	Hartford.	2. Cambrian.
198	Sharon.	2 c. Calcifer's Mica Sch.
205	Royalston.	"
216	Bethel.	1 c. Huro'an Soapstone.
217	Randolph.	"
223	Braintree.	"
232	Roxbury.	"Verde Antique.

Ms.	Central Vermont Railroad. Central Division—*Continued.*	
239	Northfield.	1 c. Huro'an Soapstone.
249	Montpelier.	" and Clay Slate.
258	Waterbury.	"
266	Bolton.[5]	1 f. Green Mt. Gneiss.
272	Richmond.	1 c. Huronian.
281	Essex Junction.	Clay Slate.
286	Winooski.	3 b. Levis Limestone.
289	Burlington.	2 j. Potsdam Sandstone.
292	Milton.	3 b. Levis Limestone.
306	St. Albans.	2 j. Potsdam Slate.

	Rutland Division.	
0	Bellows Falls.	1 B. Montalban.
5	Rockingham.	2 c. Calcifer's Mica Sch.
10	Chester.	1 g. Lake Gneiss.
22	Cavendish.	"
27	Ludlow.	1 c. Huronian.
34	Summit.	1 f. Green Mt. Gneiss.
39	E. Wallingford.	"

4. An interesting area has been traced from Lyme, N. H., to Windsor, Vt., about 30 miles long. Portions of it have been removed by the wearing action of the Connecticut. It appears to have been deposited by a powerful current derived from the melting of the glacial sheet prior to the accumulation of terraces.

5. The centre of the anticlinal axis of the Green Mountains. At least eight of the general sections of the Vermont survey show this feature of structure, proving this formation to be older than the Huronian adjacent upon both sides. This structure was denied by Logan for the continuation of the Vermont rocks in Canada in his generalizations, but the descriptions of the rocks confirm the views of the Vermont geologist.

Central Vermont Railroad.

Ms.	Rutland Division—*Continued.*	
46	East Clarendon.	3 b. Levis Limestone.
52	Rutland,	2 c. Calciferous Sandrock, (Stockbridge.)
59	Sutherland Falls	3 c. Chazy Marble.
69	Brandon.	19 a. Eocene Tertiary.
74	Leicester June.	3 c. Chazy Marble.
79	Salisbury.	3 b. Levis Limestone.
85	Middlebury.	"
89	Brooksville.	3 c. Chazy Limestone.
93	New Haven.	4 a. Trenton Limestone.
99	Vergennes.	3 c. Chazy Limestone.
109	Nor. Ferrisburg.	"
113	Shelburne.	2 j. Potsdam Sandstone.
120	Burlington.	"

Western Division

0	St. Albans.	2 j. Potsdam Slate.
9	Swanton.	"

Northern Division.

0	St. Albans.	2 j. Potsdam Slate.
9	East Swanton.	"
17	Province Line.	3 b. Levis Limestone.

Eastern Division.

0	St. Albans.	
10	Sheldon.	1 c. Huronian.
18	Enosburg Falls.	"
28	Richford.	"

Addison Division.

0	Leicester June.	3 c. Chazy.
3	Whiting.	"
7	Shoreham.	" and 3 a.
9	Orwell.	2 c. Calcife's Sandrock.
15	Larabee's Point	4 a. Trent. & La Motte.
16	Ticonderoga.	3 a. Calciferous s. s.

Harlem Extension Railroad.

0	Rutland.	2 a. Calcifer's Sandrock.
6	Clarendon.	"
9	Wallingford.	"
13	S. Wallingford.	3 c. Chazy Marble.
18	Danby and Mt. Tabor.	3 a. Calcife's Sandstone.
25	East Dorset.	" & Chazy Marble.
30	Manchester.	3 b. Levis Limestone.
39	Arlington.	"
44	Shaftsbury.	"
51	N. Bennington.	"
55	Bennington.	"
61	T. & B. Junc'n.	2. Cambrian Taconic sl.

Portland and Ogdensburg Railroad.

Ms.		
0	Lunenburg.	1 k Lyman Gp. & 1 c Hur
7	Miles Pond.	1 B. Montalban.
13	West Concord.	2 c. and d. Coos Group.
21	St. Johnsbury.	2 c. Calcife's Mica Schs.
33	Danville.	"
41	Walden.	"
49	Greensboro.	"
57	Hardwick.	"
62	Wolcott.	1 c. Huronian.
70	Morrisville.	"
73	Hyde Park.	"
78	Johnson.	"

Connecticut and Passumpsic Railroad.

0	White Riv. Jun.	1 l. Hornblende Schist.
5	Norwich.	"
10	Pompanoosuc.	"
15	Thetford.	2 c. and d. Coos Group.
22	Fairlee.	1 k Lyman Gp. & 1 c Hur
28	Bradford.	"
36	Newbury.	"
40	Wells River.	"
51	Barnet.	2 c. Calcifer's Mich Sch.
58	Passumpsic.	"
61	St. Johnsbury.	"
69	Lyndonville.	"
77	West Burke.	"
90	Barton.	"
100	Coventry.	"
105	Newport.	2. Cambrian.

Saratoga and Champlain Railroad.

0	Rutland.	
11	Castleton.	2. Cambrian Slates.
8	Granville.	"
19	Rupert.	"
26	Salem.	"
34	Eagle Bridge.	"

Hoffgate Springs
Preston.

Massachusetts.

Ms.	Eastern Railroad.	
0	Boston.	20 a. Glacial Drift.
2	Somerville.	2. Cambrian.
3	Everett.	"
5	Chelsea.	20 a. Glacial Dritt.
11	Lynn.	1 a. Huronian, (Porp'y)
16	Salem.	D d. Exeter Sienite.
23	Wenham.	"
28	Ipswich.	"
31	Rowley.	"
37	Newburyport.	1 A. Laurentian.
39	Salisbury.	D d. Exeter Sienite.
43	Seabrook.	1 p. Merrimack.
47	Hampton.	"
51	Greenland.	"
56	Portsmouth.	"
58	Kittery.	"
63	Elliott.	"
67	Conway Junc'n.	"
70	So. Berwick J'n	"
75	North Berwick.	"
80	Wells.	D d. Exeter Sienite.
89	Kennebunk.	2. Cambrian.
94	Biddeford.	" and Con'y Gr'te.
95	Saco.	2. Cambrian.
103	Scarboro.	1 c. Huronian.
108	Portland.	"

	Boston, Salem and Rockport Division.	
	Beverley.	D d. Exeter Sienite.
	Manchester.	"
	Gloucester.	"
	Rockport.	"

	Amesbury Branch.	
39	Salisbury.	D d. Exeter Sienite.
43	Amesbury.[6]	20 a. Glacial Drift.

	Great Falls, Rochester and Conway Branch.	
73	Great Falls.	1 p. Merrimack Quartz.
79	Rochester.	2 b. Andalusite Schists.
109	Wolfboro.	1 g. Lake Gneiss.
138	North Conway.	B b. Conway Granite.

	Salem and Lawrence Branch.	
	Salem.	Sienite and Diorite.
	Middletown.	1 l. Hornblende Schists.
	Lawrence.	1 p. Merrimack Group.

Ms.	Boston and Maine Railroad.	
0	Boston.	20 a. Glacial Drift.
12	Reading.	1 l. Hornblende Schists.
18	Wilmington.	1 A. Laurentian.
23	Andover.	"
26	South Lawrence	1 p. Merrimack Group.
32	Bradford.	"
38	Plaistow.	"
41	Newton.	"
45	East Kingston.	"
51	Exeter.	D d. Exeter Sienite.
58	New Market.	"
68	Dover.	"
72	Salmon Falls.	1 p. Merrimack Group.
78	North Berwick.	"
85	Wells.	D d. Exeter Sienite.
90	Kennebunk.	2. Cambrian.
100	Saco.	"
109	Scarboro Beach.	1 A. Huronian.
116	Portland.	"

	Boston, Lowell and Nashua Railroad.	
0	Boston.	
8	Winchester.	D d. Exeter Sienite.
15	Wilmington.	1 A. Laurentian.
22	Billerica.	"
26	Lowell.	1 p. Merrimack Group.
29	No. Chelmsford.	"
40	Nashua.	"
45	Merrimack.	"
51	Milford.	1 g. Lake Gneiss.
54	Wilton.	Rockingham Schists.
59	Lyndeboro.	1 g. Quartz Lake Gneiss
66	Greenfield.	1 g. Lake Gneiss.

	Danvers and Newburyport Railroad.	
0	Boston.	
10	Wakefield.	D d. Exeter Sienite.
13	Lynnfield.	"
19	Danvers.	"
28	Boxford.	1 l. Hornblende Schists.
31	Georgetown.	"
40	Newburyport.	1 A. Laurentian.

	Old Colony Railroad.	
0	Boston.	
5	Neponset.	2. Cambrian.
10	Braintree.	"
15	Randolph.	D d. Exeter Sienite.
19	Stoughton.	"
25	Easton.	"
31	Raynham.	14. Carboniferous.
34	Taunton.	"
43	Somerset.	Granite.

6. This and the adjoining towns are chiefly occupied by a profusion of lenticular-shaped drift-hills, believed to be moraines of ancient glaciers, and different from the usual *grand moraine* of glacial drift. The hills may be 200 feet high, and their longer axis run southeasterly, being parallel with the course of the striæ in the neighborhood. In the Merrimack and Connecticut Valley a few have been found having a direction to the south and west-of-south, but agreeing with the course of adjoining striæ.

Old Colony Railroad—*Continued.*

Ms.	Division.
15 Holbrook.	D d. Exeter Sienite.
20 Brockton.	"
27 Bridgewater.	14. Carboniferous.
34 Middleboro.	"
45 Assonet.	Granite.
49 Fall River.	14 a. Conglomerate.
56 Bristol Ferry.	14 b. Coal Measures.
68 Newport.	"

(Continued in Rhode Island.)

South Shore, Duxbury and Cohasset Division.

0 Boston.	
10 Braintree.	2. Cambrian.
11 Weymouth.	20 a. Glacial Drift.
17 Hingham	D d. Exeter Sienite.
21 Cohasset.	"
39 Egypt.	"
Sea View.	"
37 Duxbury.	"
Plymouth.	20 a. Glacial Drift.
45 Fremont.	"
49 Wareham.	"
54 Cohasset Narr's	"
62 Sandwich.	"
69 W. Barnstable.	"
73 Barnstable.	"
75 Yarmouth.	"
84 Harwich.	"
94 Orleans.	"
106 Wellfleet.	"
120 Provincetown.	"
68 Falmouth.	"
71 Wood's Hole	"

Boston, Clinton and Fitchburg Railroad.

0 Boston.	
22 S. Framingham.	1 A. Laurentian.
28 Fayville.	"
32 Marlboro.	1 l. Hornblende Schists.
41 Berlin.	1 p. Merrimack qu.& sch
48 Clinton.	2. Cambrian.
50 Pratt's Junction	1 p. Merrimack qu.& sch
59 Fitchburg.	Granite.

Fitchburg and Worcester Division.

0 Fitchburg.	
5 Leominster.	1 p. Merrimack qu.& sch
9 Pratt's Junction	"
14 Sterling June'n.	"
26 Worcester.	" & Granite.

Mansfield and Framingham Division.

0 Fitchburg.	
40 Sherborn.	D d. Exeter Sienite.
45 Medfield.	"
49 Walpole.	2. Cambrian.
58 Mansfield.	14 b. Coal Measures.
69 Taunton.	"
89 New Bedford.	1 A. Laurentian.

Boston, Clinton and Fitchburg—*Continued.*

Framingham and Lowell Division.

Ms.	
0 Lowell.	1 p. Merrimack qu.& sch
13 Acton.	1 A. Laurentian.
20 Sudbury.	"
26 Framingham.	

Boston and Providence Railroad.

0 Boston.	
5 Forest Hill.	20 a. Drift Moraine.
9 Readville.	1 c. Huronian Porphyry.
14 Canton.	2. Cambrian.
18 Sharon.	D d. Exeter Sienite.
24 Mansfield.	14 b. Coal Measures.
31 Attleboro.	"

New York and New England.

0 Boston.	
9 Readville.	1 c. Huronian Porphyry.
19 Walpole.	2. Cambrian.
23 Norfolk.	D d. Exeter Sienite.
27 Franklin.	"
30 Wadsworth.	1 A. Laurentian.
36 Blackstone.	"
41 Ironstone.	"
48 Douglas.	2 c. Quartzite.
53 E. Thompson.	1 B. Montalban.

Norwich and Worcester Division.

0 Worcester.	1 p. Merrimack qu.& sch
4 Auburn.	"
11 Oxford.	"
16 Webster.	1 A. Laurentian.

Woonsocket Division.

0 Boston.	
12 Weedham.	2. Cambrian.
19 Medfield.	1 m. Huron'n Porphyry.
25 Medway.	D d. Exeter Sienite.
32 Bellingham.	1 c. Huronian.
38 Woonsocket.	2. Cambrian.

Nashua and Acton Railroad.

0 Nashua.	1 p. Merrimack qu.& sch
5 Dunstable.	1 g. Lake Gneiss.
12 Graniteville.	1 p. Merrimack qu.& sch
22 Acton.	1 A. Laurentian.
24 Concord June'n	"

Worcester and Nashua Railroad.

0 Worcester.	1 p. Merrimack qu.& sch
10 Oakdale.	"
17 Clinton.	2. Cambrian.
25 Harvard.	1 p. Merrimack qu.& sch
31 Groton.	"
39 Hollis.	"
46 Nashua.	"
57 Windham.	"
65 Sandown.	"
74 Epping.	"
80 Lee.	"
88 Barrington.	"
95 Rochester.	2 b. Andalusite Schists.
147 Portland.	1 c. Huronian.

Ms.	Providence and Worcester R. R.	
16	Woonsocket.	2. Cambrian.
20	Millville.	"
25	Uxbridge.	1 A. Laurentian.
31	Northbridge.	"
37	Millbury.	"
44	Worcester.	

	Boston, Barre and Gardner Railroad.	
0	Boston.	
44	Worcester.	1 p. Merrimack qu. & sch
52	Holden.	"
60	Princeton.	1 g. Lake Gneiss.
70	Gardner.	"

	Ware River Railroad.	
0	Palmer.	1 d. Porphyritic Gneiss.
3	Thorndike.	"
12	Ware.	"
21	Barre Plaines.	1 g. Lake Gneiss.
27	Templeton.	"
43	Baldwinsville.	"
48	Winchendon.	"

	Springfield, Athol & North-Eastern R. R.	
0	Athol.	1 g. Lake Gneiss.
8	New Salem.	"
16	Greenwich Vil'e	"
21	Enfield.	"
30	Barrett's Junc'n	D d. Sienite.
37	Collins.	"
41	Ludlow.	" & 16. Triassic.
48	Springfield.	16. Triassic.

	New London Northern Railroad.	
50	Stafford.	1 B. Montalban.
60	South Monson.	"
65	Palmer.	1 d. Porphyritic Gneiss.
70	Barrett's.	D d. Sienite.
75	Belchertown.	1 B. Montalban.
80	Dwight's.	20 a. Drift.
85	Amherst.	16. Triassic.
90	Leverett.	1 B. Montalban.
95	South Montague	16. Triassic.
100	Miller's Falls.	1 B. Montalban.
103	Northfield.	16. Triassic.
110	South Vernon.	2 c. Coos Quartzite.
116	Vernon.	1 e. Bethlehem Gneiss.
121	Brattleboro.	2. Cambrian.

Ms.	New Haven and Northampton R. R.	
0	Williamsburg.	Calciferous Mica Schist.
5	Florence.	D d. Sienite.
8	Northampton.	"
13	East Hampton.	16. Triassic.
16	Southampton.	"
23	Westfield.	"
29	Southwick.	"

	Connecticut River Railroad.	
0	Springfield.	16. Triassic.
7	Chicopee Jun'n.	"
8	Holyoke.	"
13	Smith's Ferry.	"
15	Mount Tom.[7]	"
17	Northampton.	D d. Sienite.
21	Hatfield.	16. Triassic.
26	Whately.	"
33	Deerfield.	"
36	Greenfield.[8]	"
40	Bernardstown.[9]	2 c. Quartzite and Coos.
50	South Vernon.	"

	New Haven, Hartford & Springfield R. R.	
0	Springfield.	16. Triassic.
4	Long Meadow.	"

	Housatonic Railroad.	
0	Pittsfield.	3 b. & c. Stockbridge ls.
7	Dewey's.	"
8	Lenox.	"
11	Lee.	"
17	Stockbridge.	"
23	Van Deusenville	"
25	Barrington.	"
31	Sheffield.	"
35	Ashley Falls.	"
37	Canaan.	"

	Fitchburg, Troy and Boston Railroad.	
0	Boston.	
10	Waltham.	1 c. Huronian.
20	Concord.	1 A. Laurentian.
27	West Acton.	"
35	Ayer Junction.	1 p. Merrimack qu. & sch
40	Shirley.	"
46	Leominster.	"
50	Fitchburg.	"
58	Westminster.	Granite.

7. This is the locality furnishing for the Amherst Museum the large rows of tracks of *Brontozoum Giganteum*, the largest of the Triassic birds. Across the river, in South Hadley, is an excellent locality of *Otozoum Moodii*, so named for Pliny Moody, who was the first person in the Connecticut Valley known to have observed any of the footmarks. A specimen is preserved which he dug up in 1800, saying that "the tracks were made by Noah's raven."

8. The noted locality of fossil footmarks is at Turners Falls, on a branch of the F. T. & B. R. R., four miles distant. W. W. Draper was the first person to observe them, in 1835. He suggested that they were "turkey tracks made 2,000 years ago." His impressions were communicated to Col. Wilson, who called the attention of Dexter Marsh to them. Mr. Marsh showed them to Dr. James Deans, who requested Prof. E. Hitchcock to investigate them scientifically. This was done, and the results accumulated in the Hitchcock Ichnological Museum at Amherst, where are over 20,000 separate ichnites, illustrating about 160 species, all from the Connecticut Valley.

9. This is the town where the celebrated Helderberg limestone crops out. It is believed to be a remnant of a once extensive deposit, preserved accidentally from erosion, and resting upon or folded beneath the Coos Quartzite.

Fitchburg, Troy & Boston R. R.—*Continued.*

60	Ashburnham.	1 g. Lake Gneiss.
65	Gardner.	1 B. Montalban.
71	Baldwinsville.	"
77	Royalston.	"
80	Athol.	"
87	Orange.	"
92	Ewing.	"
98	Miller's Falls.	"
102	Montague.	"
106	Greenfield.[8]	16. Triassic.
109	Bardwell's.	"
117	Shelburne Falls.	1 f. Green Mt. Gneiss.
128	Charlemont.	"
132	Zoar.	"
136	Hoosac Tunnel.	[10] "
143	North Adams.	3 b. & c. Stockbridge ls.
148	Williamstown.	"
158	Petersburg.	2 g. Taconic Schists.

Boston and Albany Railroad.

0	Boston.	
5	Brighton.	2. Cambrian.
21	S. Framingham.	1 A. Laurentian.
28	Southville.	"
38	Grafton.	"
49	Worcester.	1 p. Merrimack qu. & sch
52	Rochdale.	1 g. Lake Gneiss.
62	Spencer.	"

Boston and Albany Railroad—*Continued.*

67	Brookfield.	1 g. Lake Gneiss.
73	Warren.	"
83	Palmer.	1 d. Porph. Gneiss.
89	Wilbraham.	16. Triassic.
98	Springfield.	"
108	Westfield.	"
116	Russell.	2 e. Calcifer's Mica Sch.
119	Huntington.	"
126	Chester.	1 c. Huronian.
131	Middlefield.	"
135	Becket.	1 f. Green Mt. Gneiss.
138	Washington.	"
143	Hinsdale.	"
146	Dalton.	2 j. Potsdam.
151	Pittsfield.	3 b. & c. Stockbridge ls.
159	Richmond.	"
162	State Line.	2 g. Taconic Schists.

Milford Branch.

	S. Framingham.	1 A. Laurentian.
	Milford.	"

Pittsfield and North Adams Branch.

0	Pittsfield.	3 b. & c. Stockbridge ls.
6	Berkshire.	"
10	Cheshire.	"
15	South Adams.	"
20	North Adams.	"

10. The monntain is believed to be an inverted and very much crushed anticlinal.

Rhode Island.

Ms.	**Providence and Springfield Railroad.**	
0	Providence.	14. Carboniferous.
5	Allendale.	1 D. Huronian.
10	Stillwater.	1 A. Laurentian.
17	Tarkiln.	"
23	Pascoag.	"

Providence and Worcester Railroad.

0	Providence.	14. Carboniferous.
6	Valley Falls.	14 b. Coal Measures.
9	Ashton.	2. Cambrian.
16	Woonsocket.	" ?

Boston and Providence Railroad.

0	Providence.	14. Carboniferous.
4	Pawtucket.	14 b. Coal Measures.
5	East Junction.	

Providence, Warren and Bristol Railroad.

0	Providence.	14. Carboniferous.
7	Nayatt.	"
10	Warren.	"
14	Bristol.	"
16	Fall River.	14 a. Carb. Conglom'te.

Old Colony Railroad.

0	Newport.	14 b. Coal Measures.
12	Bristol Ferry.	"
14	Tiverton.	Granite.
19	Fall River.	14 a. Carb. Conglom'te.

Connecticut.

Ms.	Housatonic Railroad.	
0	Bridgeport.	1 d. Porphyritic Gneiss.
10	Stepney.	1 B. Montalban.
15	Botsford.	"
19	Newtown.	"
23	Hawleyville.	"
27	Brookfield Jun.	"
35	New Milford.	"
42	Merwinsville.	"
48	Kent.[11]	1 A. Laurentian.
57	Cornwall Bridge	"
65	Lime Rock.	3 b. & c. Stockbridge l.s.
73	Canaan.	"

	Shepaug Railroad.	
0	Litchfield.	1 b. Montalban.
6	Morris.	"
13	Washington.	"
20	Roxbury.	"
32	Hawleyville.	"
38	Bethel.	"
59	South Norwalk.	"

	Naugatuck Railroad.	
0	Bridgeport.	1 d. Porphyritic Gneiss.
3	Stratford.	"
13	Derby.	"
15	Ansonia.	"
19	Seymour.	1 B. Montalban.
26	Naugatuck.	"
32	Waterbury.	"
34	Waterville.	"
41	Thomaston.	"
46	Campville.	"
49	Litchfield.	"
52	Wolcottsville.	"
57	Burrville.	1 A. Laurentian.
61	Winsted.	"
32	Waterbury.	1 B. Montalban.
35	Oakville.	"
38	Watertown.	"

	New Haven and Northampton Railroad.	
0	New Haven.	16. Triassic.
9	Mount Carmel.	"
15	Cheshire.	"
22	Southington.	"
27	Plainville.	"
31	Farmington.	"
37	Avon.	"
42	Simsbury.	"
47	Granby.	"

	New Haven & Northampton R. R.—*Con.* Collinsville Branch.	
	Farmington.	16. Triassic.
	Unionville.	"
	Collinsville.	1 B. Montalban.
	New Hartford.	"

	New York, New Haven, Hartford & Springfield Railroad.	
0	New York.	1 B. Montalban.
30	Greenwich.	"
35	Stamford.	"
43	South Norwalk.	"
50	Southport.	"
57	Bridgeport.	1 d. Porphyritic Gneiss.
60	Stratford.	"
65	Milford.	2 c. Calcifer's Mica Sch.
74	New Haven.	16. Triassic.
80	North Haven.	"
86	Wallingford.	"
92	Meriden.	"
99	Berlin.	"
105	Newington.	"
110	Hartford.	"
116	Windsor.	"
122	Windsor Locks.	"
127	Thompsonville.	"
136	Springfield.	"

	Shore Line Division.	
0	New Haven.	16. Triassic.
8	Branford.	1 A. Laurentian.
16	Guilford.	1 B. Montalban.
23	Clinton.	"
28	Westbrook.	"
31	Saybrook.	"
33	Lyme.	1 A. Laurentian.
43	East Lyme.	"
50	New London.	"

	Connecticut Central Railroad.	
	Hartford.	16. Triassic.
	South Windsor.	"
	Melrose.	"
	Hazardville.	"

	Connecticut Valley Railroad.	
0	Hartford.	16. Triassic.
8	Rocky Hill.	"
15	Middletown.	"
24	Higganum.	1 A. Laurentian.
30	Goodspeed.	1 B. Montalban.
38	Essex.	"
44	Saybrook Point	"

11. The oldest formations of New England assume ovoidal shapes, as the area of Laurentian, near Kent, and Winsted, Ct., Vernon, Vt., Winchester, N. H., &c. The later series are grouped concentrically around them, and thus an easy way of determining age and inversion is afforded.

Ms.	New London Northern Railroad.	
0	New London.	1 A. Laurentian.
6	Montville.	"
13	Norwich.	1 B. Montalban.
20	Franklin.	"
26	South Windham	"
30	Willimantic.	"
36	Eagleville.	"
44	Tolland.	"
50	Stafford.	"

	Stonington and Providence Railroad.	
0	New London.	1 A. Laurentian.
9	Mystic.	"
12	Stonington.	"
	(Rhode Island.)	
18	Westerly.	1 A. Laurentian.
26	Wood Riv. Jun.	"
35	Kingston.	"
42	Wickford June.	"
48	Greenwich.	14. Carboniferous.
53	Hill Grove.	"
57	Auburn.	"
62	Providence.	"

	Connecticut Western Railroad.	
0	Hartford.	16. Triassic.
6	Bloomfield.	"
12	Tariffville.	"
15	Simsbury.	"
22	Canton.	1 B. Montalban.
24	Collinsville.	"
29	New Hartford.	"
36	Winsted.	1 A. Laurentian.
45	Norfolk.	"
55	Canaan.	3 b. & c. Stockbridge ls.
62	Salisbury.	"
69	Millerton.	"

Ms.	Hartford, Providence & Fishkill R. R.	
0	Waterbury.	1 B. Montalban.
11	Terryville.	"
19	Plainville.	16. Triassic.
24	New Britain.	"
33	Hartford.	"
42	Manchester.	"
49	Vernon.	1 B. Montalban.
56	Andover.	"
65	Willimantic.	"
75	Baltic.	"
88	Plainfield.	"
	(Rhode Island.)	
91	Moosup.	1 A. Laurentian.
96	Oneco.	"
101	Summit.	"
109	Washington.	"
114	Natick.	"
123	Providence.	14. Carboniferous.

	New York and New England R. R.	
0	Willimantic.	1 B. Montalban.
9	Goshen.	"
20	Pomfret.	"
25	Putnam.	"
29	Thomson.	"
33	East Thomson.	"

	Norwich and Worcester Division.	
0	New London.	1 A. Laurentian.
13	Norwich.	1 B. Montalban.
23	Jewett City.	"
29	Plainfield.	"
34	Wauregan.	"
42	Daysville.	"
47	Putnam.	"
52	Grosvenor Dale.	"
57	Webster	"